GUARANTEE CARD

ITEM:	MODEL:	ITEM NO.:
DATE OF PURCHASE:		
CLIENT NAME:		
CONTACT ADDRESS:		
CONTACT TEL		

IMPORTANT NOTICE

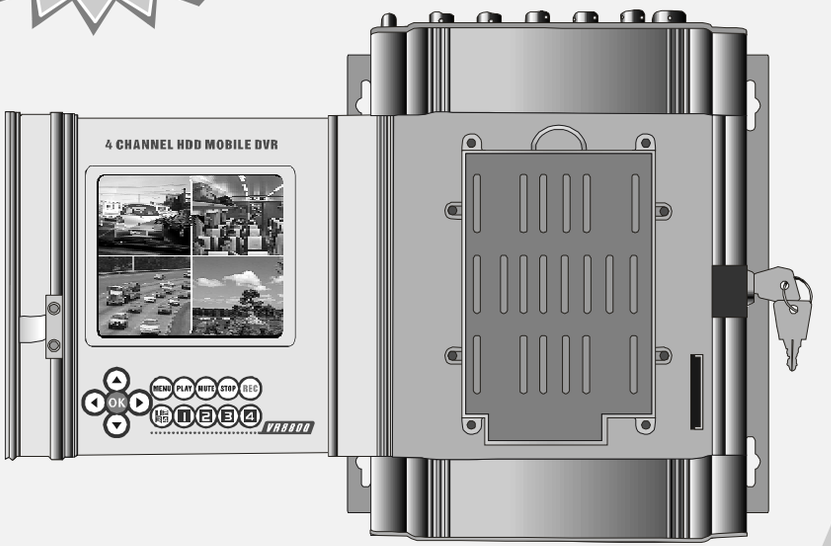
1. Please fill out the Guarantee Card strictly according to the facts;
2. Only will this Guarantee Card be valid when sealed by our franchisers;
3. We provide 1 year warranty to the product. If product fails to work properly under warranty period, our factory will help repair it free of charge;
4. This limited warranty does not apply to:
   (1). Damage to a product that is out of warranty;
   (2). Cosmetic damage, such as scratches, nicks and dents;
   (3). Damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature;
   (4). Damage caused by service performed by anyone who is not an authorized service provider;
   (5). Damage to a product that has been modified or altered without permission;
   (6). Damage to a product that has been used in damp, high/low temperature or any other harsh environments;
   (7). Any other damages that are not caused by our factory.
5. Please keep the Guarantee Card properly. We reserve the right to Refuse warranty in case of no Guarantee Card provided.

VR8800

4-CHANNEL HDD MOBILE DVR

User's Manual

2006



- ☑ VR8800N
- ☑ VR8800
- ☑ VR8800G
- ☑ VR8800-3G
- ☑ VR8800-3GW

The instruction applies to VR8800 series products. Please read it carefully before using the products!

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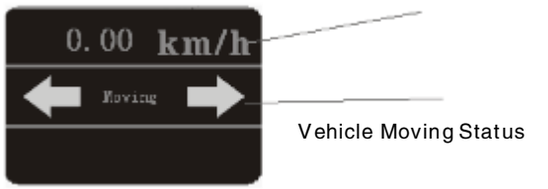
B. Control Buttons

Please refer to the form for function of each button;

Button	Function	Button	Function
	Slow x1/x2/x3/x4		Play
	No Use		Pause
	Fast x1/x2/x3/x4		Stop
	Play Frame by Frame		

C. Speed Display Bar



D. Google Map Zone

If the "Open Navigation" is selected, you will be able to see the vehicle position, while playing video.

E. Calendar/Hour Bar/Minute Bar

Double click the number in Calendar, the Hour bar and the Minute Bar will change correspondingly.

1. Red number in Calendar means there was recording during the corresponding day;
2. Green in Hour Bar means there was recording during the corresponding hours;
3. Blue in Minute Bar means there was recording during the corresponding minute.

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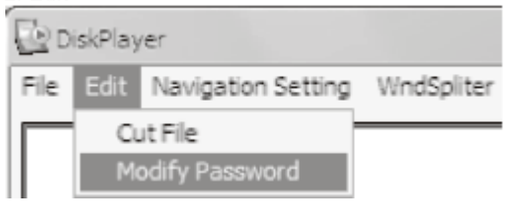
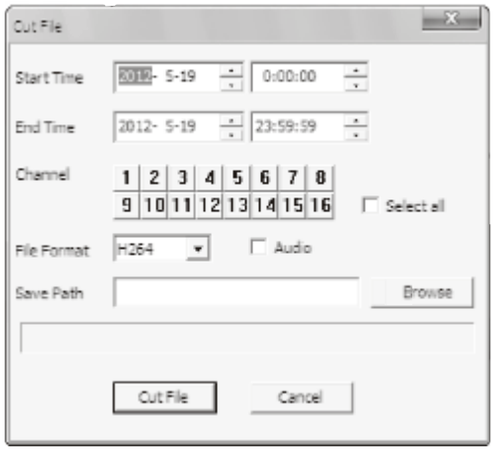
2. Edit

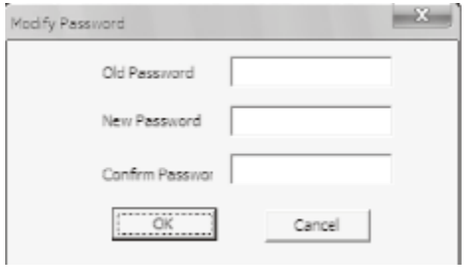


a. Cut file

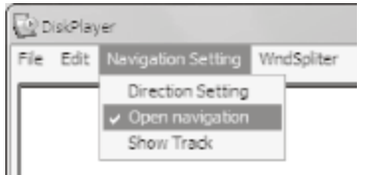


Note: here you can back up video to your computer, select "Start Time", "End Time", "Channel", and a path for saving files.

b. Modify Password



3. Navigation Setting



Select "Open Navigation", you will see Google Map at the bottom right showing the position of the vehicle.

Attentions

1. Make sure all parts are connected correctly before you turn on the Unit;
2. Turn off the power whenever you need to connect or remove a Hard Drive;
3. Keep the unit away from water or any other kinds of liquid;
4. Do not rudely strive, drop, or hit the unit for avoiding damage of DVR or Hard Drive;
5. Read the manual carefully before you start operating the unit.

Features

The VR8800 Series (V3.1) is a professional, rugged, solid state DVR designed for in-vehicle recording. The VR8800 Series (V3.1) records up to 4 channels Video and Audio, location data from built-in GPS, supports up to 2TB Hard Drive as well as 32GB SD card for memory storage, combined with built-in 3G (optional), Wi-Fi (optional) and Ethernet. The VR8800 Series (V3.1) can work with all CCD/CMOS cameras, and can power 4 cameras directly; it is a new in-vehicle recording system that you can rely on.

01. H.264 main profile Video compression format;
02. Can work with power supply ranging from DC8V to DC36V;
03. Supports Manual Record, Motion Detect and scheduled Record;
04. Video resolution: D1/HD1/CIF/QCIF selectable for each channel; framerate: 1-25fps (PAL) or 1-30fps (NTSC) for each channel;
05. Supports 4 channels "Video & Audio" recording and playback simultaneously;
06. Supports 4 channels "alarm input" and 2 channel "alarm output";
07. Video clips can be saved onto either SD card or HDD; Supports SD card up to 32G and Hard Drive up to 2TB;
08. Video file can be backed up in H.264 format or AVI; and can be played with normal Video player or customized player on PC;
09. With "Power-off delay" function to guarantee the DVR would shut down normally to keep recorded files safe when an emergency occurs;
10. Can work with 4 cameras, and power 4 cameras directly;
11. Supports GPS, and wireless video transmission (WIFI and 3G optional) .

Applications

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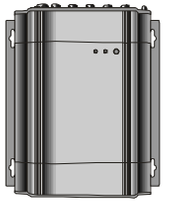
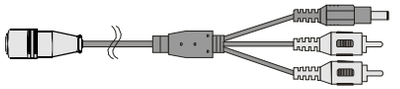
Packing List

1. One VR8800 Series (V3.1) DVR

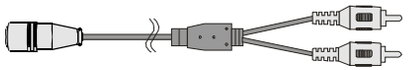


2. One User Manual

3. Four AVP Combined Cables (for camera)



4. One AV Combinded cables (for TV)

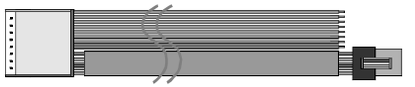


5. One Pair of Keys

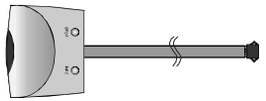
6. One IR Remote Control

7. One Power cable

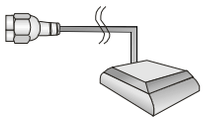
8. One Combined Control Cable
(for Alarm & C-Box)



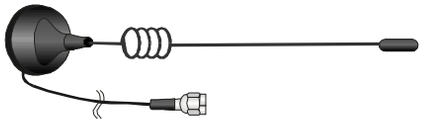
9. One Control Box (C-Box)



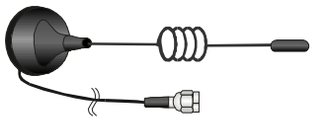
*10. One GPS Antenna



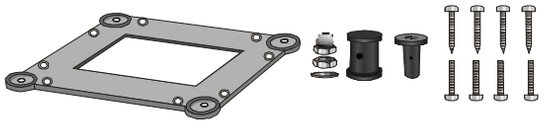
*11. One 3G Antenna



*12. One WiFi Antenna

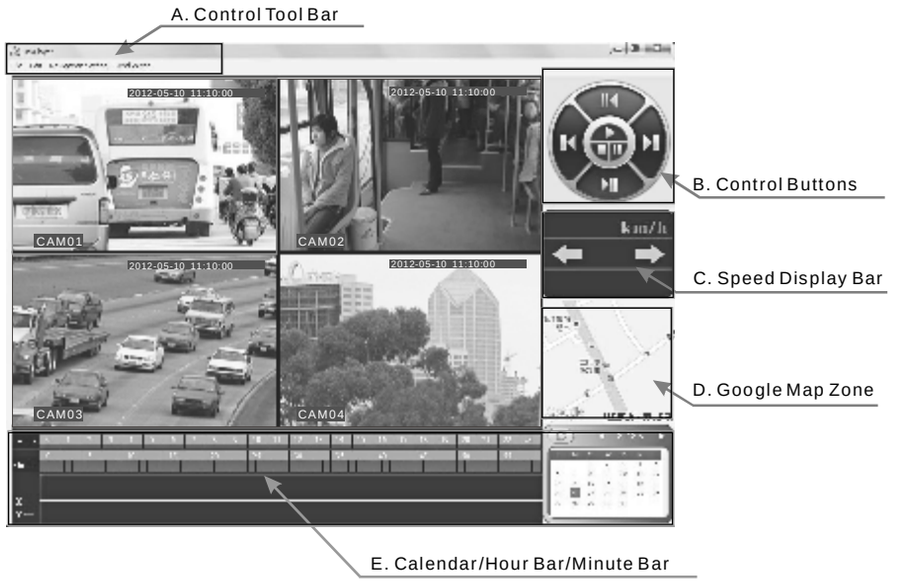


13. mounting plate, screws bolts and nuts, etc.



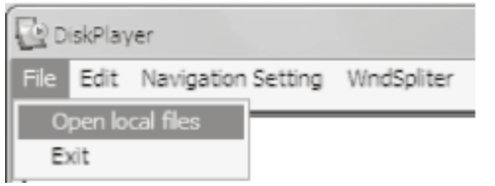
Accessories with "*" are optional according to the feature of the DVR.

DiskPlayer



A. Control Tool Bar

1. File



a. Open local files

b. Exit
Exit DiskPlayer.

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Mouse operation

VR8800 (V3.1) supports Mouse Operation, here is the operation instruction.

Operation	Function
Double left click	Double click one item to play in the files list.
	Double click one channel to show in full screen or 1/4 screen
Left click	Select one item
Right click	Pop out Shortcut Menu
Roll the whee	Tour from one image to another at Preview Page

Preview

	Record Icon
	Motion Detect Icon
CAM01	ChannelID
	Audio output Icon
	Snapshot Icon
	Video Loss Icon

FAQ

1. Can not boot up normally
Possible reasons are as follows;
A. The power supply is not right;
B. The connection of power cable is bad;
C. Error happened during firmware upgrade;
D. The Hard Drive is broken;

2. Can not detect Hard Drive
Possible reasons are as follows;
A. The Hard Drive is broken;
B. The Hard Driver is not properly connected;
C. The SATA connector on the main PCB board is damaged.

3. Crash or reboot automaticallylly
Possible reasons are as follows;
A. The input power voltage is not stable or too low;
B. The Hard Drive is broken;
C. Bad heat radiator or too much dust or bad running circumstance;
D. Some problem with the DVR hardware.

4. No color/ distorted Image
Possible reasons are as follows;
A. The color settings of the monitor is not right;
B. The video signal is too weak after long distance transmission;
C. TV standard mismatched; check if DVR, camera, and monitor are in the same TV standard, PAL or NTSC;

5. No video output
Possible reasons are as follows;
A. Video output cable is broken or not properly connected;
B. There is no video input signal or the signal is too weak;
C. The image brightness is set "0";
D. TV channel mismatched; please switch the monitor to AV channel.

Technical Parameters

Model	VR8800N	(No TFT, No GPS, No 3G, No Wi-Fi)
	VR8800	(With TFT, No GPS, No 3G, No Wi-Fi)
	VR8800G	(With TFT, with GPS, No 3G, No Wi-Fi)
	VR8800-3G	(With TFT, with GPS, with 3G, No Wi-Fi)
	VR8800-3GW	(With TFT, with GPS, with 3G, with Wi-Fi)
Maximum Current	VR8800N	450 ± 20mA (Main frame)
	VR8800	500 ± 20mA (Main frame)
	VR8800G	550 ± 20mA (Main frame)
	VR8800-3G	700 ± 20mA (Main frame)
	VR8800-3GW	750 ± 20mA (Main frame)
Power input		DC8V~DC36V
Power output		DC12V 3A
Working Tempreture		-10℃ ~ +50℃
Output Voltage(For Camera)		DC12V 3A
Power Supply		Car battery
Compression Format		H.264
Video Format		H.264/AVI
Record Signal		4 Channel Video/Audio
Max Memory Capacity		2000GB Hard Drive Plus 32GB SD Card
Record Mode		Motion Detect/ Scheduled Record/ Manual Record
Video Resolution		D1/HD1/CIF/QCIF for each Channel;
Frame Rate		1-25fps (PAL) or 1-30fps (NTSC) for each channel;
USB Ports		USB 2.0 x 2
File Store Mode		Overwrite/ Stop When Full
Alarm Function		4CH input and 2 CH output
Internet Interface		10M/ 100M RJ45
Dimension		180mm (L) x 50mm (W) x 194mm (H)

Note:
Specifications given in this instruction are subject to techical changes without notices.

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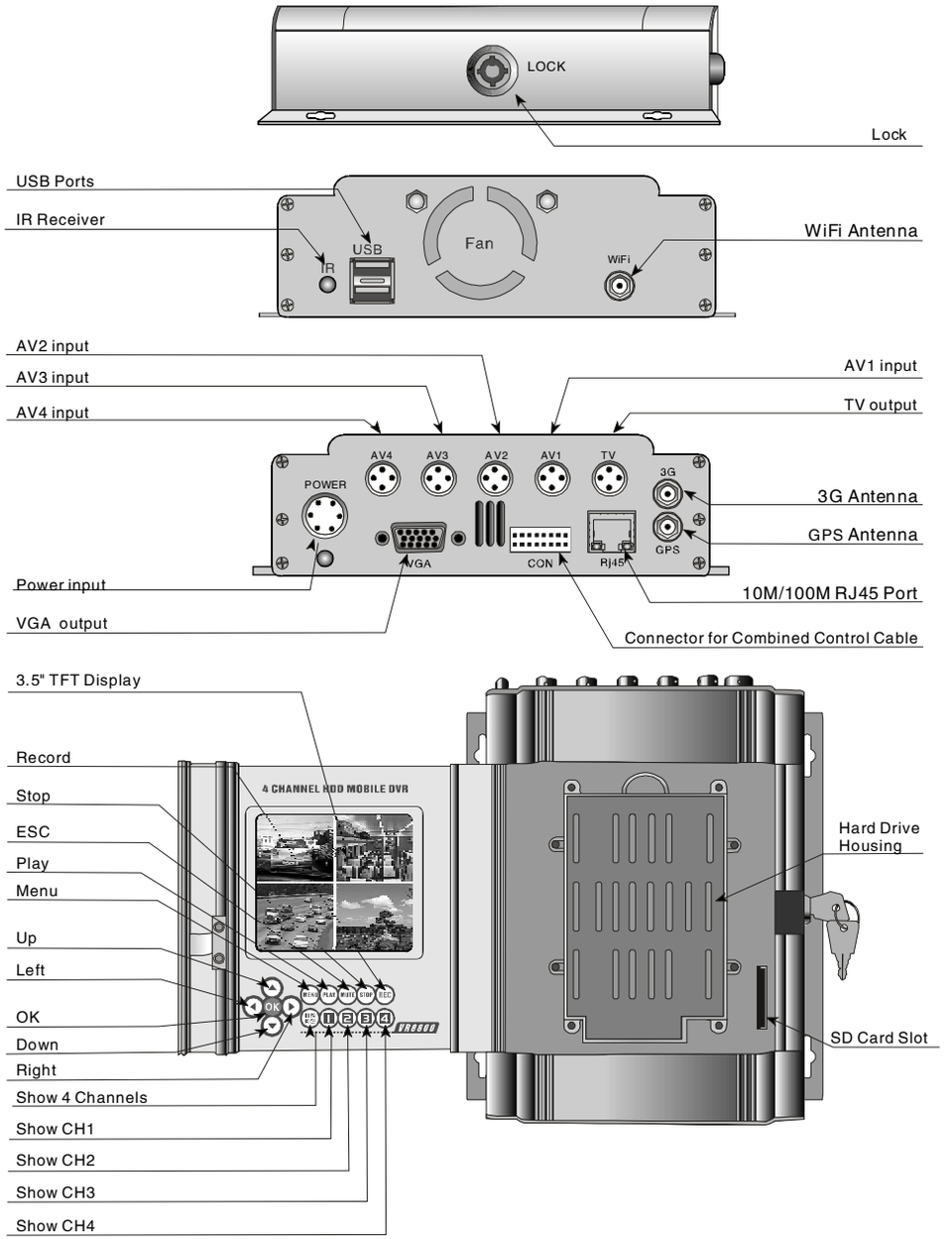
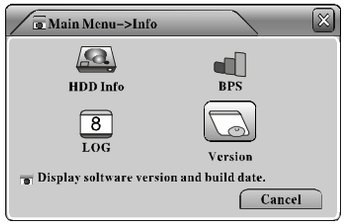
Structure Explanation



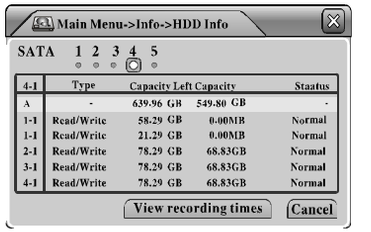
Note: The picture is for reference only , please refer to the actual product for appearance.

3.5 Info.



There are 4 submenu items under "**Info.**": "**HDD Info**", "**BPS**", "**LOG**" and "**Version**".

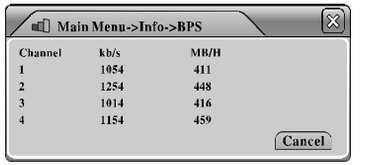
3.5.1 HDD Info


Main Menu->Info->HDD Info
SATA 1 2 3 4 5
4-1 Type Capacity Left Capacity Staatus
A - 639.96 GB 549.80 GB -
1-1 Read/Write 58.29 GB 0.00MB Normal
1-1 Read/Write 21.29 GB 0.00MB Normal
2-1 Read/Write 78.29 GB 68.83GB Normal
3-1 Read/Write 78.29 GB 68.83GB Normal
4-1 Read/Write 78.29 GB 68.83GB Normal
View recording times
Cancel

Here you can see information of all Storage Devices, including "**Disk Type**", "**Capacity**", "**Left Capacity**", and "**Status**".

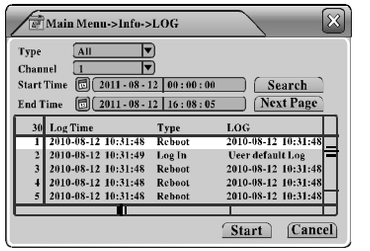
Note: If the disk is in good condition, a circle" ○ " will be shown on the top correspondingly; otherwise, a wrong mark " X " will be shown; if no disk connected, then a dash mark " – " .

3.5.2 BPS



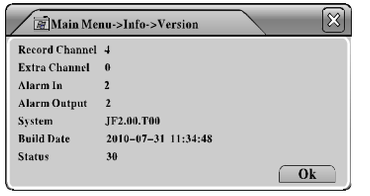
Here you can see real-time "**Bit Stream Info**" (Kb/S) of each channel and "**Memory Take-up Rate**"(MB/H).

3.5.3 LOG



Here you can check all "**Even Log Information**" of this device, including "**Log Time**", "**Log Type**", and "**Log Detailed Info**"

3.5.4 Version



Here you can check Hardware and Firmware information of the Device.

3.6 Logout

Please refer to 2.9 .

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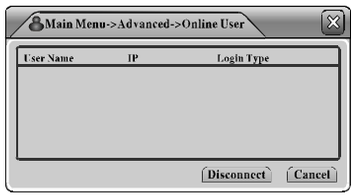
3.4.3 Online User

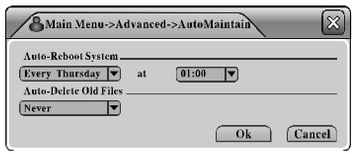


Here you can see all "**Online Network Users**" who are visiting the DVR devices. Select one online user, click"**Disconnect** ", the connection will be cut, and the user will be blocked until the device boot up next time.

3.4.4 Output Adjust

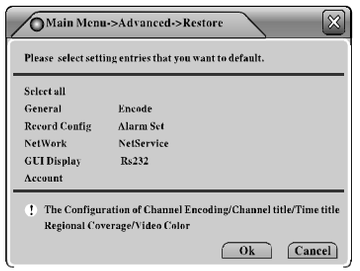
Please refer to 2.8 "Output Adjust".

3.4.5 Auto Maintain



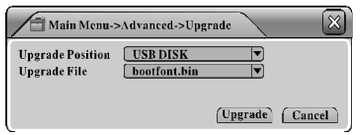
Here you can set "**Auto Reboot**" and "**Auto Delete Files**" time for the device.

3.4.6 Restore



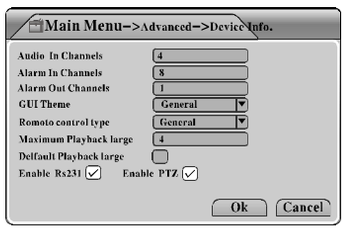
Here you can restore all settings to "**Factory Settings**". Select the corresponding items, and click"**OK**" to execute.

3.4.7 Upgrade



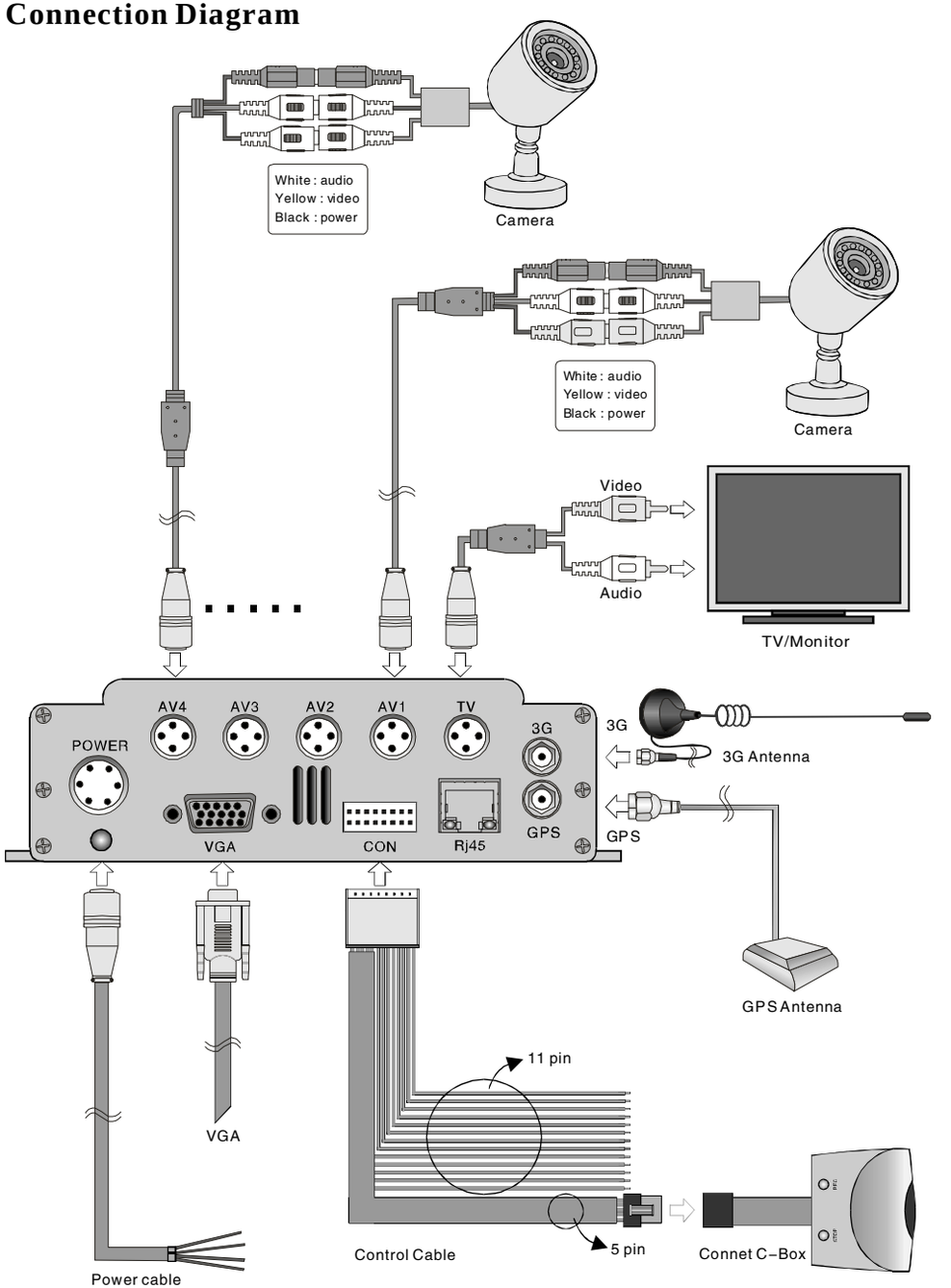
Plug in a USB disk with Upgrade Firmware, the DVR will detect the upgrade file automatically. Navigate to this page, and click "**Upgrade**" to execute. The DVR will reboot automatically when the"**Upgrade**" is done.

3.4.8 Device Info.



Here you can see the "**Device information**" of the DVR, including "**Audio in Channels**", "**Alarm in Channels**", "**Alarm out Channels**", "**GUI Theme**" and so on.

Connection Diagram



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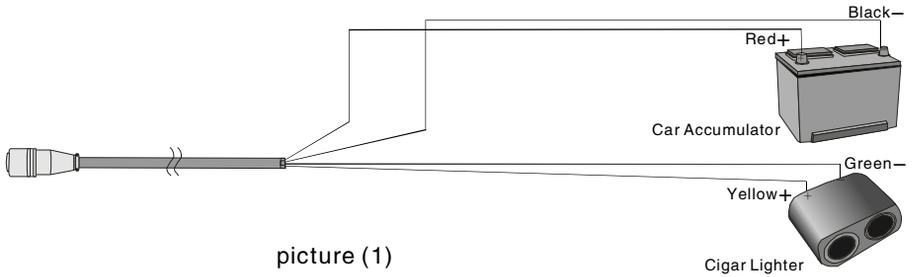
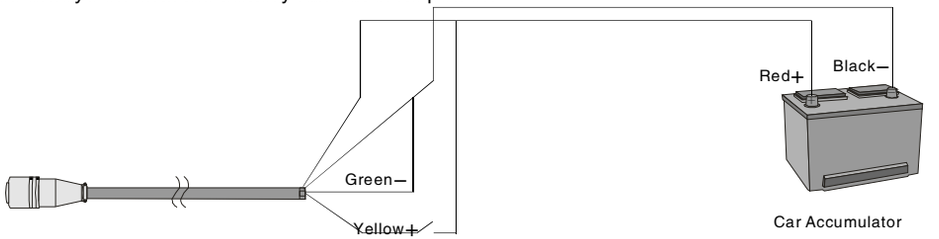
Power Cable Connection

Option A: Connect the green wire and the yellow wire to the engine, see picture (1); when the car is started, the DVR will be turned on automatically;



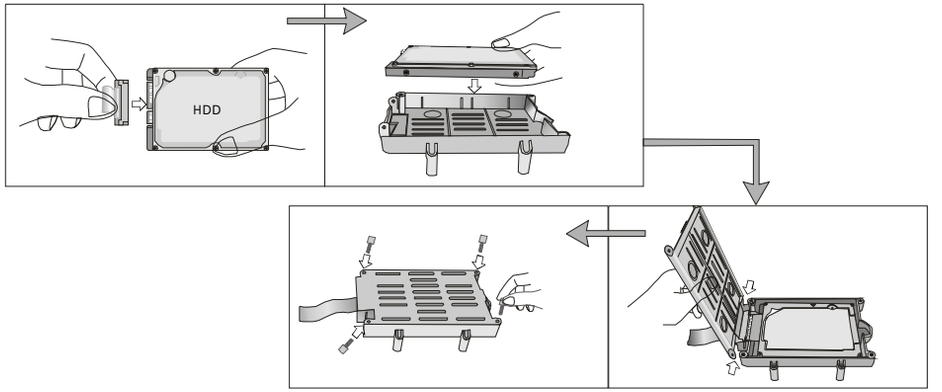
picture (1)

Option B: Connect the red wire and the yellow wire to the positive terminal, the black wire and the green wire to the negotive terminal of your car battery, see picture (2); the DVR will be always on until the battery ran out of its power.



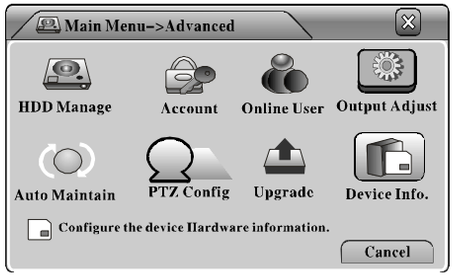
picture (2)

How to Install Hard Drive



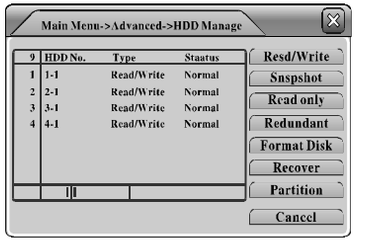
1. Loosen the screws on the cover of the Hard Drive Housing and open it;
2. Gently connect the plug to the Hard Drive and place it into the housing;
3. Tighten the screws on the housing and finish the installation of Hard Drive.

3.4 Advanced



There are 8 submenu items under "**Advanced**": "**HDD Manage**", "**Account**", "**Online User**", "**Output Adjust**", "**Auto Maintain**", "**Restore**", "**Upgrade**" and "**Device Info**".

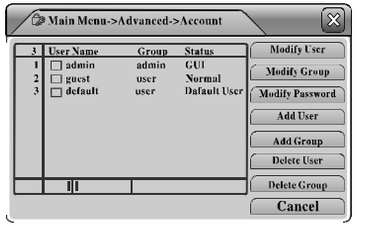
3.4.1HDD Manage



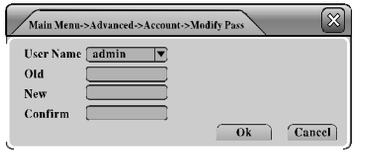
Here you can manage all Memory Storage Devices. All devices (HDD, USB Disk or SD card) information will be shown in the form on the left, including "**HDD No.**", "**Type**","**Status**", and so on.You can define a disk as "**Read & Write Disk**", "**Snapshot Disk**", "**Read only Disk**", or "**Redundant Disk**", you can "**Format**"the Disk, "**Recover**" the Disk, or "**Partition**" the disk with those buttons on the right side.

Note: Make sure at least there is one "Read Write Disk".

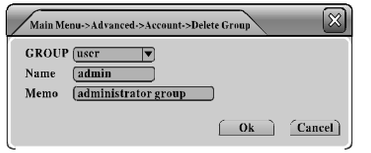
3.4.2 Account



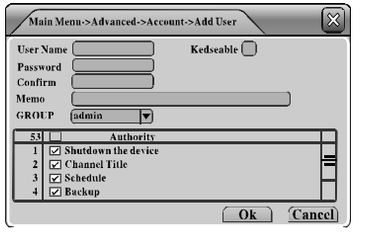
Here you can manage all User Accounts. All User Information is shown in the form on the left, including" **User Name**", "**User Group**", "**User Status**". You can "**Modify User**", "**Modify Goup**", "**Modify Password**", "**Add Group**", "**Delete User**", "**Delete Group**", or "**Update User**" with those buttons on the right side.



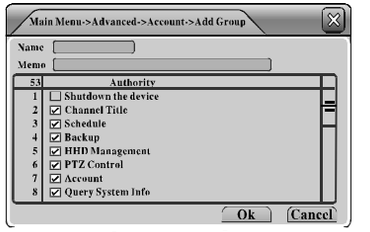
【Modify Password】



【Delete Group】



【Add User】



【Add Group】

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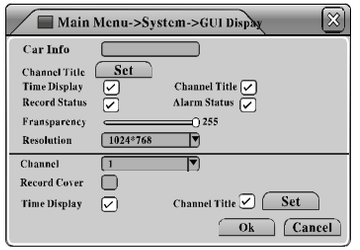
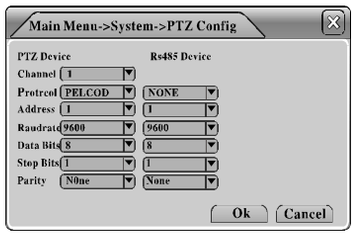
3.3.5 GUI Display



Here you can configure the settings for OSD Items, Transparency, Resolution, and so on.

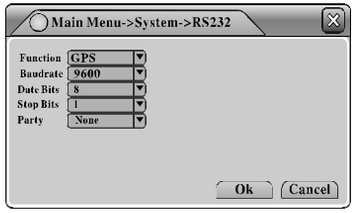
Car Info: Enter an ID for the Device;
Channel Title: Enter a title name for each channel;
[Choose OSD items] Click the square on the right to show/ hide the corresponding item, such as "**Time Display**", "**Channel Title**", "**Record Status**", "**Alarm Status**" and so on;
Transparency: Move the horizontal scroll bar to adjust the transparency of the Menu interface;
Resolution: Set video output resulotion;

3.3.6 PTZ Config.



Channel: Select the video channel which is connected to PTZ device;
Protocol: Set the "**Protocol**"of the PTZ device;
Adress: Enter the "**Address**" of the PTZ device;
Baudrate: Select the "**Baudrate**" used by the the PTZ device;
Data Bits: Select "**Data bits**" for the PTZ device;
Stop Bits: Set"**Stop Bits**"for the PTZ device;
Parity: Set "**Pairty**" for the PTZ device, "**Odd**", "**Even**", "**Mark**", "**Space**" or "**None**".

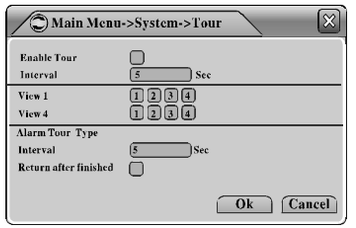
3.3.7 RS232



In general, we use "**Serial Port**" interface for GPS function only. Select "**GPS**" in the first blank, enter Baudrate "**9600**", Data Bits "**8**", Stop Bits "**1**" and Select Parity "**None**", the GPS will work.

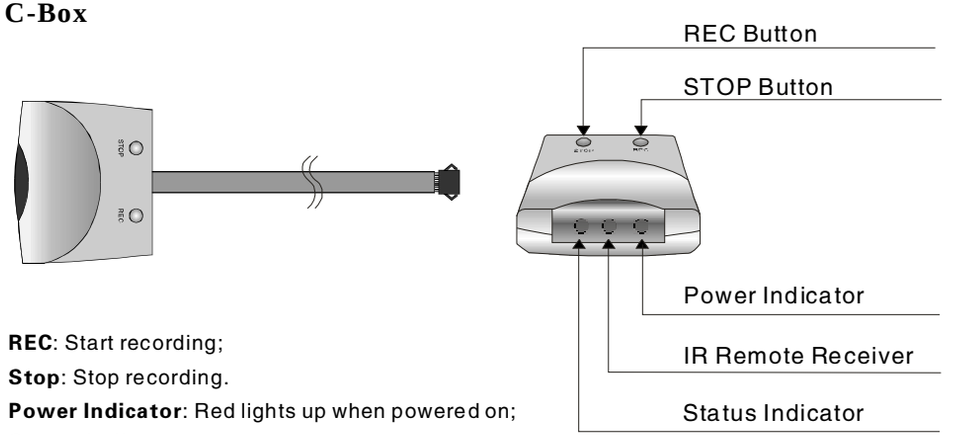
Note: the setting is only valid for the models which support GPS function.

3.3.8 Tour



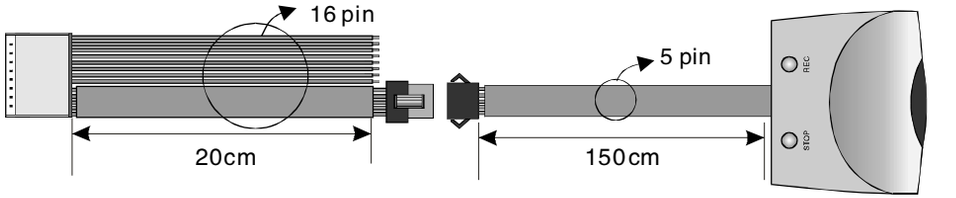
Here you can configure the "**Tour**" settings, for example, if interval is set "**5**" seconds, CH1, CH2, CH3 , CH 4 are selected, then the image would cycle among the 3 channels, tour from one to another every 5 seconds; and you can also set "**Interval**" for "**Alarm Tour**" here.

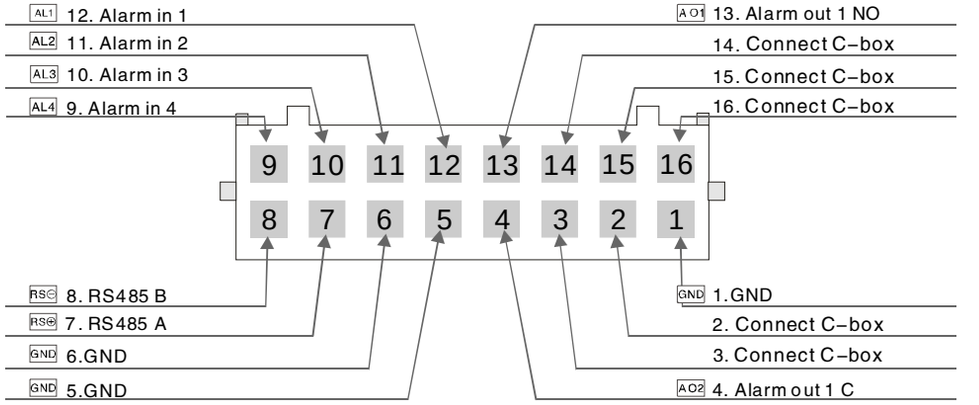
C-Box



REC: Start recording;
Stop: Stop recording.
Power Indicator: Red lights up when powered on;
Status Indicator: Flashing green while recording;
Constant green in other cases.

Control Cable




AL1 12. Alarm in 1
AL2 11. Alarm in 2
AL3 10. Alarm in 3
AL4 9. Alarm in 4
AO1 13. Alarm out 1 NO
14. Connect C-box
15. Connect C-box
16. Connect C-box
9 10 11 12 13 14 15 16
8 7 6 5 4 3 2 1
RS- 8. RS485 B
RS+ 7. RS485 A
GND 6.GND
GND 5.GND
GND 1.GND
2. Connect C-box
3. Connect C-box
AO2 4. Alarm out 1 C

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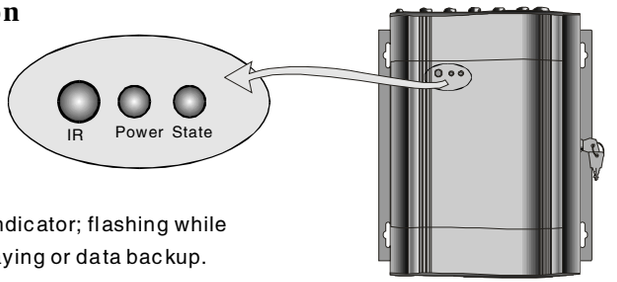
Indicator Explanation



IR: IR Remote Receiver
Power: Power Indicator
State: DVR working state indicator; flashing while during recording, playing or data backup.

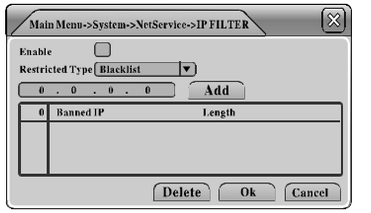
Remote Control

Button	Function	Button	Function	Button	Function
1	CH1		No use		Down
2	CH2	REC	Record	PAUSE	ESC
3	CH3		Up		No use
4	CH4	STOP	Stop		No use
5	No use		Left	ZOOM+	No use
6	No use	OK	Confirm	ZOOM-	No use
	Quad Screen		Right		
MENU	Menu	PLAY	Play		

Memory Occupancy Calculation

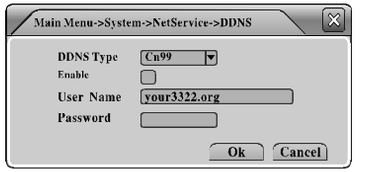
1. VR8800 (v3.1) Series products support 2.5" Sata HDD up to 2TB, and SD memory card up to 32GB at the same time;
2. Here are the formulas for Memory Occupancy Calculation;
A. Overall Memory Occupancy = Total Recording Channels x Recording Time x Memory Occupancy for 1 hour Recording (single channel);
B. Recording Time = Storage Device Capacity / Memory Occupancy for 1 hour Recording (single channel) / Total Recording Channels
3. The following numbers for 1 hour recording memory occupancy are for your reference;
A. CIF: 45-245Mega byte per channel;
B. D1: 130-355Mega Byte per channel.

c. IP FILTER



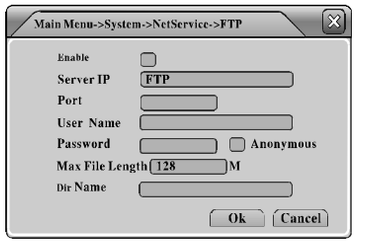
You can put IP addresses in the "**Blacklist**" or "**White List**". IP Addresses in the "**White List**" are able to access the device; on the contrary, IP Addresses in the "**Black List** "Will be blocked; you can set maximum 64 IP Addresses.

d. DDNS



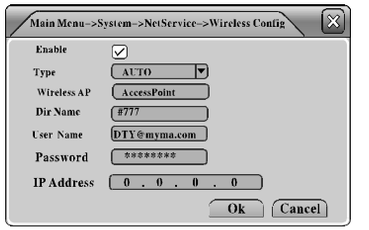
"**DDNS**"is short for "**Dynamic Domain Name Server**".If "**DDNS**" setting is successfully configured, you can visit the Device via the Domain Name with the IE Browser;
DDNS Type: Select "**DDNS Type**";
Domain Name: Enter the "**DDNS domain name**";
User Name/ Password: Enter the DDNS "**User Name**" and "**Password**".

e. FTP



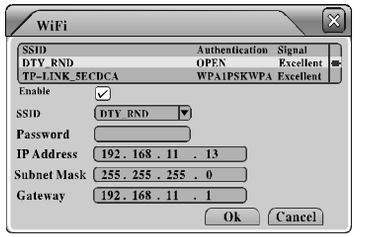
"**FTP**" is for uploading video files or snapshot to the appointed FTP Server when alarms happen or recording, snapshot triggered by alarms.
Server IP: Enter the IP address of FTP Server;
Port: Enter the Domain port of FTP Server;
User Name: Enter User Name;
Password: Enter User Password;
Max File Length: Set Max File Length for unloadng;
DirName: File Directory for uploading.

f. Wireless Config



The DVR supports remote monitoring via 3G network. here you can configure the "3G" Settings;
Type: Select 3G "Dial Mode";
Wireless AP: Enter 3G AccessPoint;
Dial Number: Enter 3G Dial Number;
User Name: Enter 3G User Name;
Password: Enter 3G User Password.
Note:1. Make sure there is a 3G module built-in the DVR;
2. Ask your 3G Service Provider for the above parameters; for example, the settings for China Unicom are as follows:Wireless AP: 3gnet; Dial Number: *99#; User Name: no; Password: no

g. Wifi



The DVR supports "**remote monitoring**" via Wifi network, here you can configure the "Wifi" Settings;
Search: Search Wireless Network in local area, and then double click to choose one of them;
Password: Enter the "Password" of the Wireless Router;
IP Address: Enter the IP address of the Device;
Subnet: Enter the Subnet Mask of the Device;
Gateway: Enter the Gateway of the Device.

Note: Make sure there is a Wifi Module built-in the DVR before you use this function.

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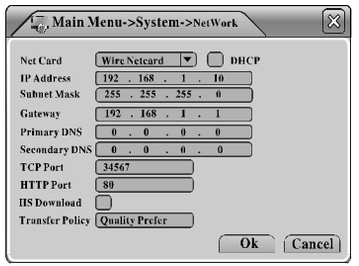
Quality: Video Quality, 6 levels adjustable;
Bit Rate: select a bit rate value once "CBR" Bit Rate Type is selected; D1 (512~2560kbps)/ HD1 (384~2048kbps)/ CIF (64~1024kbps)/ QCIF (64~512kbps);
Video / Audio: Record"Video" or "Audio", or both.

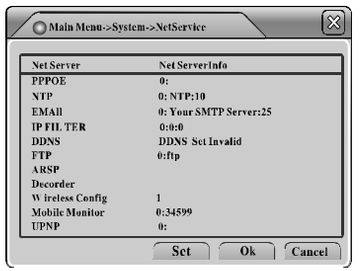
3.3.3 Network



Here you can configure "**Wired Network**" settings if you need to use the internet function;

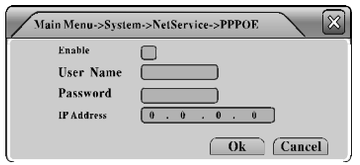
Net Card: Wire Netcard;
DHCP Enable: Automatically Attain IP Address (Not recommended);
Note: please make sure the DHCP Server is built in advance if you need to use this function.
IP Address: set IP address for the device;
Media Port: Set "**TCP Port**" for the device;
HTTP Port: Set "**HTTP Port**"for the device;
HS Download: High Speed Download from Internet;
Transfer Policy: Transfer Priority; Quality Preferred, Fluency Preferred or Adaptive;

3.3.4 Net Service



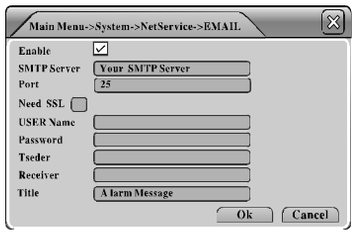
Here you can configure Advanced Network Settings for the device. Double click each item and the corresponding dialog box would pop out.

a. PPPoE



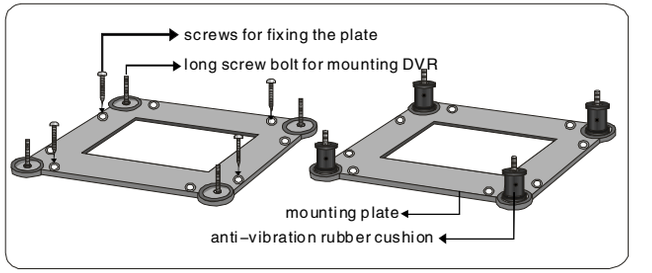
Enter the "**User Name**"and "**Password**" provided by **ISP** (Internet Service Provider), reboot the DVR, it will build the connection to the Internet via "**PPPoE**" and attain the "**IP address**" automatically.

b. EMAIL



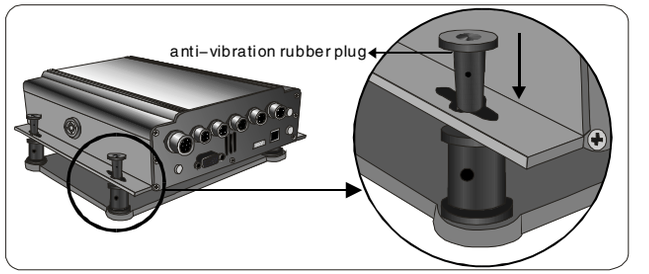
Enter the email information here, and the DVR will be able to send emails with alarm information or snapshot to the appointed receivers (maximum 3 email addresses) when alarms happen.

How to Mount the DVR



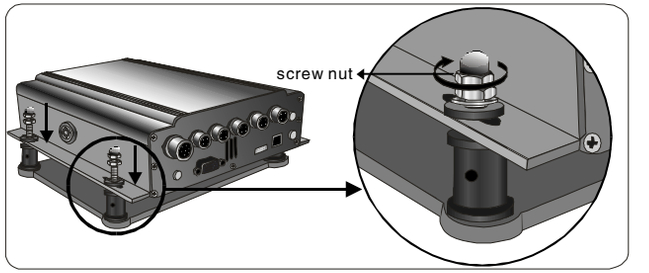
①

1.Put the long screw bolt to mounting plate with the plate's smooth face up turned, mount the plate in reverse with screws, then put anti-vibration rubber cushions on the bolts and lay the DVR on it. See picture 1.



②

2. Insert the anti-vibration rubber plugs into the rubber cushions. See picture 2.



③

3. Add metal gaskets and screw nuts, whirl the nuts clockwise to tighten the DVR onto the mounting plate. See picture 3.

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1. System Login

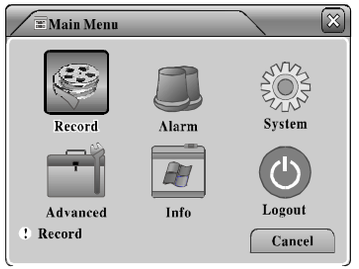
You will be required to enter the Password while trying to access the setup menu. Initially, there are three users from three groups: "**admin**", "**guess**", and "**default**", and all three users have no passwords. The supper user "**admin**" is able to add, modify or delete groups or other user accounts, change the passwords, and even define the "**Authority**" of other users in the setup menu. Please refer to 3.4.2.

2. Shortcut Menu

Right click the mouse after you enter "**Preview Mode**", a shortcut menu will pop out as shown; from here you can go to **Main Menu**, **Record Mode**, **Play Back**, **PTZ Control**, **High-Speed PTZ**, **Alarm Output**, **Color Setting**, **Output Adjust**, or **Logout** pages.

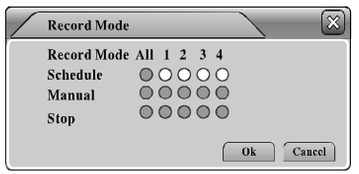
2.1 Main Menu

Click Main Menu in shortcut menu and go to "**Main Menu**" directly as shown;



2.2 Record Mode

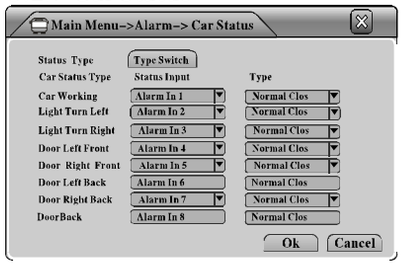
Click Record Mode in shortcut menu and go to "**Record Mode**" setup page as shown;



Schedule: Start recording according to configuration;
Manual: Start recording regardless of configuration;
Stop: Stop recording.

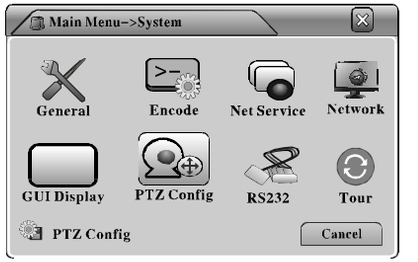
Note: the small circle would turn white when selected.

3.2.7 Car Status



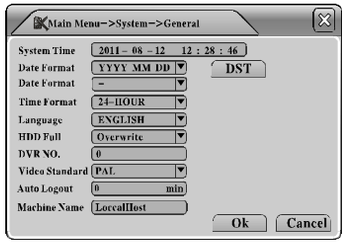
Here you can configure the 4 alarm inputs and connect them to the doors or lights of your vehicle; for example, when the door is open, or the turn left light is on, the corresponding alarm input would be detected.

3.3 System



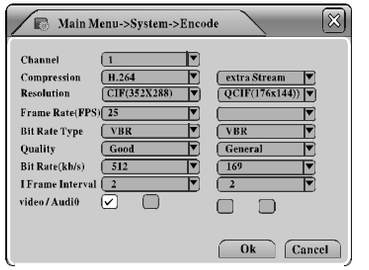
There are 8 submenu items under "**System**": "**General**", "**Encode**", "**Network**", "**Net Service**" and "**GUI Display**", "**PTZ Config.**", "**RS232**" and "**Tour**".

3.3.1 General



Here you can configure "**General Settings**" for the DVR system;
Menu Language: 14 languages optional, English, French, Portugueses, Russian, Italian, S-Chinese, T-Chinese, Spanish, Thai, Greek, Japanese, German, and Polish;
HDD Full: Memory Storage Modes; "**Stop When Full**"or " **Overwrite When Full**";
Video Standard: PAL or NTSC;
Auto Logout: Set menu auto log out time; "0" means "never logout automatically".

3.3.2 Encode



Here you can set video/ audio "**Encode**" parameters. There are 2 groups of "**Encode**" Settings; Generally speaking, the first group is for high quality local video storage and the other group called "**Extra Stream**" is for **remote video transmission** which is relatively low quality so as to ensure the fluency of the video stream;
Channel: Select 1 channel or all 4 channels for settings;
Compression: Compression format; the default format is H.264;
Resolution: Video resolution, D1/ HD1/ CIF/ QCIF adjustable;
Frame Rate: Adjustable; Maximum Frame Rate: 25FPS (NTSC) or 30FPS (PAL);
Bit Rate Type: VBR (Variable Bit Rate) or CBR (Constant Bit Rate) selectable;

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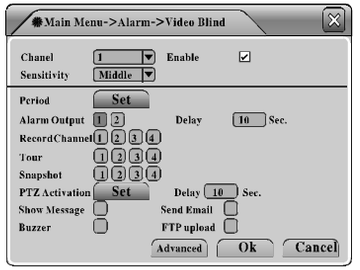
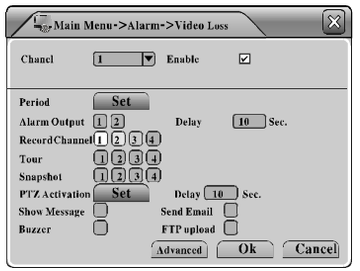
3.2.2 Video Blind



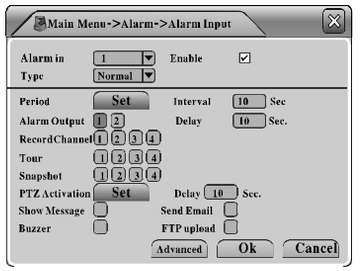
Here you can configure "**Video Blind**" Alarm Settings; when the image is influenced by the enviroment or by human behavior, the alarm would be activated. For settings of linkage options, please refer to 3.2.1 "**Motion Detect**".

3.2.3 Video Loss



Here you can configure"**Video Loss**" alarm settings; when the video input signal is lost on the selected channel (s), the alarm would be activated. For settings of linkage options, please refer to 3.2.1 "**Motion Detect**".

3.2.4 Alarm Input

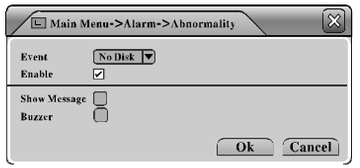


Here you can configure"**Alarm input**" alarm settings; the DVR supports when the video input signal is lost on the, the alarm would be activated. For settings of linkage options, please refer to 3.2.1 "**Motion Detect**".

3.2.5 Alarm Output

Please refer to 2.6.

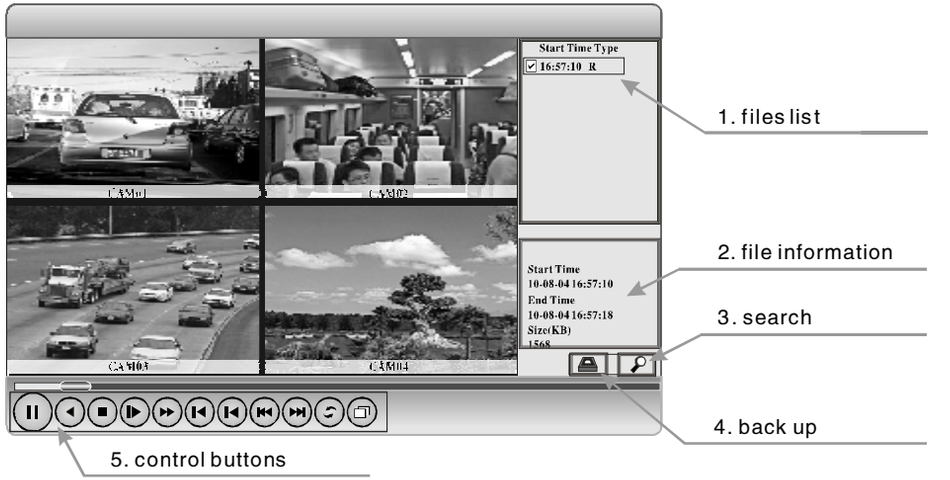
3.2.6 Abnormality



When it is set in this option, the DVR will analyze the hardware and software and react to the abnormal phenomena, show the alarm dialog box or open the buzzer.

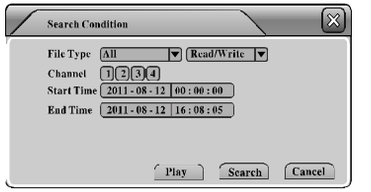
2.3 Playback

Click Play Back in shortcut menu and go to "**Playback**" interface as shown;



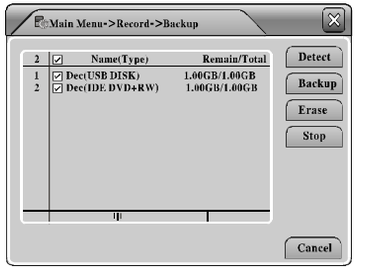
Button	Function	Button	Function	Button	Function
	play/pause		backward		stop
	slow play		fast play		previous frame
	next frame		previous file		next file
	circulation		full screen		

2.31 File Searching



Click , the "**Search Condition**" dialog box will pop out; set the search conditions and start to search.

2.32 File Backup



Connect a storage device (USB Disc or SD card) to the DVR in advance, click and then "**Detect**"; select a device, and click "**Backup**" to go to the next step, please refer to 3.4.

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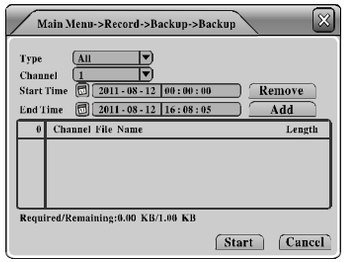
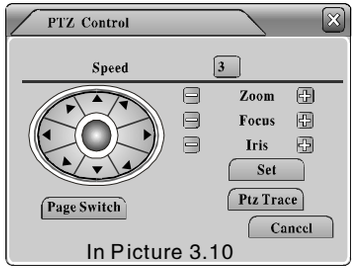


Choose "**File Type**", "**Channel**", "**Start Time**", "**End Time**", "**Backup Format**", and then click "**Start**" to execute.

2.4 PTZ Control

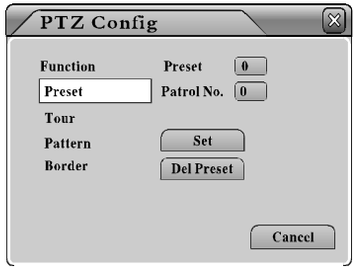
Click PTZ Control in shortcut menu and go to "**PTZ Control**" page as shown;



In Picture 3.10

Here you can adjust "**Speed**", "**Zoom**", "**Focus**", "**Iris**", Change the direction, Check "**PTZ Trace**" or do more by clicking Page Switch to go to other pages.

Note: please make sure the PTZ has been correctly connected, and all parameters properly set in "PTZ Config" in advance.



Click Set , you will go to "**PTZ Config**" page as shown;

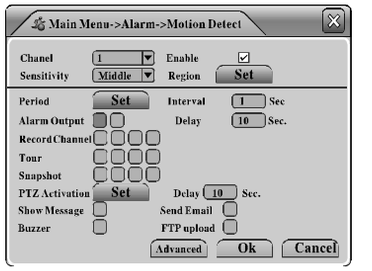
Here you can modify the settings of "**Preset**", "**Tour**", "**Patter**", and "**Border**".

2.5 High Speed PTZ

Click HighspeedPTZ in shortcut menu, the camera which has been connected to PTZ will be shown in full screen; you can change the direction of the PTZ by clicking the mouse or zoom in/out the image by rotating the mouse.

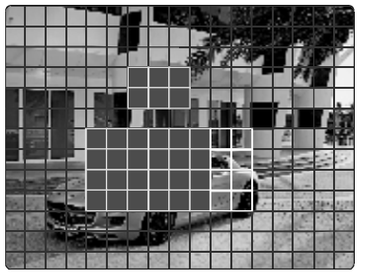
Note: Please make sure the PTZ connected supports high-speed operation.

3.2.1 Motion Detect

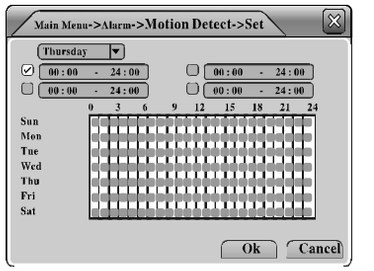


Here you can configure the "**Motion Detect**"setting for every channel.

Channel: Select 1 channel or all 4 channels for configuration;
Enable: Enable/Disable "**Motion Detect**" function;
Sensitivity: Select "**Sensitivity**" Level; there are 6 options;



Region: Set "**Motion Detect**"area.



Period: Set "**Motion Detect**" schedules.

Interval: Set "**Motion Detect Interval**"; only one motion can be det ected during the set interval;
Alarm output: Start the external alarm equipment which is connected to Alarm output once motions are detected;
Alarm Delay: Set "**Alarm**" signal duration;
Record Channel: The selected channel (s) would start recording when motions are detected;
Tour: The selected channel (s) will be shown in full screen in turn, when motions are detected, refers to 3.3.8 for "**Tour Interval Setting**";
Snapshot: The selected channel (s) would take snapshots when motions are detected;
PTZ Activation: Activate the PTZ equipment when motions are detected; the PTZ equipment would work as set, refer to 3.3.6;
Record Delay: Set "**Record Delay Time**"after alarm ends;
Shown Message: When motions are detected, the alarm dialog box would pop out;
Send Email: When a motion is detected, the DVR would send an email to the user, refer to 3.3.4 for **"Email Setting"**;
Buzzer: open the buzzer when motions are detected.

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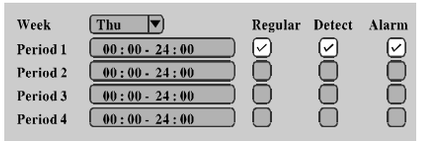
A. **Schedule**: Enable " Snapshop " function during the time periods set in the below schedules;



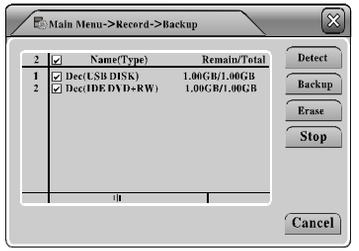
Regular: Store snapshots during the period set when "Regular" recording is happening;
Detect: Store snapshots during the period set when " Detect" recording is happening, which are triggered by "Motion Detect", "Camera Mask" or"Video Loss";
Alarm: Store snapshots during the period set when "Alarm" recording is happening, which are triggered by external alarm signal;

B. **Manual**: Enable "Snapshot" function in any cases;
C. **Stop**: Disable "Snapshot" function in any cases.

3.1.3 Playback

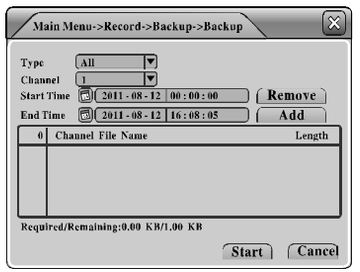
Please refer to 2.3.

3.1.4 Backup



Here you can back up recorded video files to external storage device, either a SD card or a Hard Drive. Please make sure you have connected the storage devices to the DVR in advance.

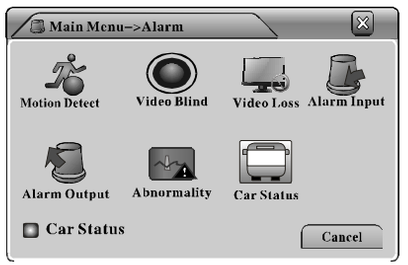
Click "**Detect**" to search Storage Devices, Select one disk for video backup;



Click "Backup"to go to the next page to Choose "**File Type**", "**Channel**", "**Start Time**", "**End Time**", "**BackupFormat**" as shown, and then click "**Start**" to back up files.

Note: you can also do other operation while Video Backup is being processed.

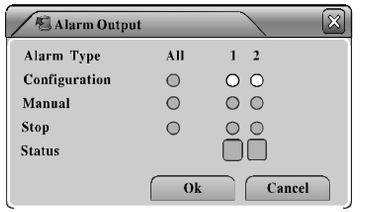
3.2 Alarm



There are 7 submenu items under "**Alarm**": "**Motion Detect.**", "**Video Blind**", "**Video Loss**" and "**Alarm Input**", "**Alarm Output**", "**Abnormality**" and "**Car Status**".

2.6 Alarm output

Click Alarm Output in shortcut menu and go to "**Alarm Output**" setup page as shown;

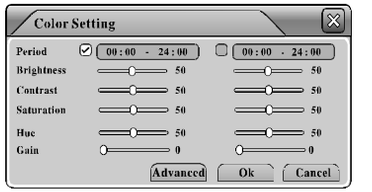


Configuration: Alarm on according to configuration;
Manual: Open Alarm output regardless of configuration;
Stop: Close Alarm output.

Note: the small circle would turn white when selected.

2.7 Color Setting

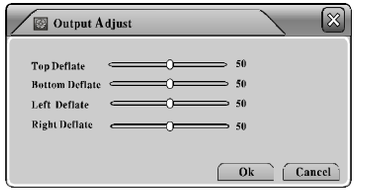
Click Color Setting shortcut menu and go to "**Color Setting**" page as shown;



Here you can adjust the "**Brightness**", "**Contract**", "**Saturation**","**Hue**", and "**Gain** "of the image. You can set two different groups of settings for different time periods.

2.8 Output Adjust

Click Output Adjust in shortcut menu and go to "**Output Adjust**" page as shown;



Here you can adjust the "**Top Deflate**", "**Bottom Deflate**", "**Left Deflate**" and "**Right Deflate**" of video output.

2.9 Logout

Click Logout in shortcut menu, the "**Logout**" dialog box will pop out as shown;

Logout: exit "**Logout**" menu;
Shutdown: Turn off the DVR;
Reboot: Restart the DVR.

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3. Main Menu

Click Main Menu in shortcut menu or press "Menu" on IR remote control; there are six submenu items: Record, Alarm, System, Advanced, Info and Logout; see menu navigation as follows;

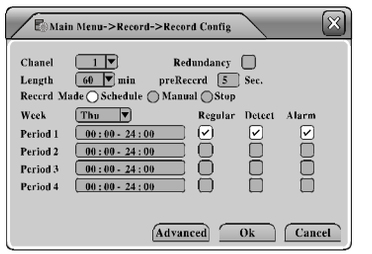
Record	Config	Set the recording configuration, recording type, recording time section
	playback	Set recording look-up, recording play, video file storage
	backup	Detect or format backup equipment, back the selective files
Alarm	Motion detection	Set motion detect alarm channel, sensitivity, area, linkage parameters: Defending time section, alarm output, screen hint, recording, PTZ,patrol
	Video blind	Set camera mask alarm channel, sensitivity, linkage parameters: defending time section, alarm output, screen hint, recording, PTZ, patrol
	Video loss	Set video loss alarm channel, linkage parameters: defending time section, alarm output, screen hint, recording, PTZ, patrol
	Alarm input	Set alarm input channel, equipment type, linkage parameters:defending time section, alarm output, screen hint, recording, PTZ, patrol
	Alarm output	Set alarm mode: configuration, manual, shut down
System configuration	General configuration	Set system time, data format, language, hard disk full time operation, machine number, video format, output mode, summertime, stay time
	Encode configuration	Set main(assistant)coding parameter: code mode, resolving ability, frame rate, code stream control, image quality type, code stream value, frame between value, video/audio enable
	Network configuration	Set basic network parameters, DHCP and DNS parameters, network high speed download
	NetService	PPPOE、NTP、Email、IP purview、DDNS parameter
	GUI display	Set channel name, preview hint icon state, transparency, cover area, time title, channel time fold
	PTZ configuration	Set channel, PTZ protocol, address, baud rate, date bit, stop bit, check
	Serial port Configuration	Set serial port function, baud rate, date bit, stop bit, check
	Tour	Set patrol mode and interval time
Management tools	Hard disk Management	Set appointed hard disk as read-write disc, read-only disc or redundant disc, clear data, resume date and so on
	User Management	Modify user, team or password. Add user or team. Delete user or team.
	Online user	Break the connection with the already login user. Lock the account after break until booting up again.
	TV adjust	Adjust TV upside, downside, nearside, starboard distance
	Automatic Management	Set automatic reboot system and automatic deleting files.
	Restore	Resume setup state: common setup, code setup, recording setup, alarm setup, network setup, network service, preview playback, serial port setup, user management
System information	Hard disk Information	Display hard disk capability and recording time
	Codestream Statistics	Display code stream information
	Log Information	Clear all log information according to the log video and time
	Edition information	Display edition information
Shut down		Logout, shut down or reboot

3. 1 Record

There are 4 submenu items under "**Record**": "**Record Conf.**", "**Snapshot Storage**", "**Playback**" and "**Backup**".

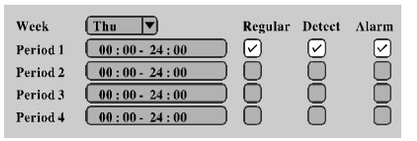
3. 1.1 Record Config

Here you can configure the recording setting for every channel. You can define "**Video Clip Length**", "**Pre-Record Time**", "**Record Mode**", and even set "**Recording Schedule**" for everyday, 4 periods a day.


Main Menu->Record->Record Config
Chanel 1 Redundancy
Length 60 min preRecord 5 Sec.
Record Mode Schedule Manual Stop
Week Thu Regular Detect Alarm
Period 1 00:00 - 24:00
Period 2 00:00 - 24:00
Period 3 00:00 - 24:00
Period 4 00:00 - 24:00
Advanced Ok Cancel

Channel: Select 1 channel or all 4 channels for configuration;
Redundancy: When two storage devices are installed, select "Redundancy", the vide files will be backed up to all two disks;
Length: Define length of video clip; the default value is 60 minutes;
Pre-Record: Define pre-recording time, 1-30 seconds selectable;
Record Mode: Define"Record Mode", there are 3 options;

A. **Schedule**: Start recording during the time periods set in the below schedules

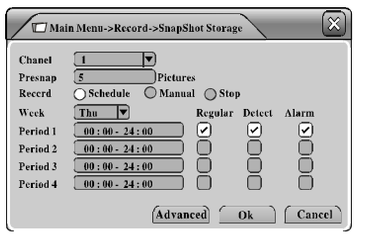


Regular: Start regular recording during the preriod set; the video file type is "R";
Detect: Start recording only when triggered by "MotionDetection", "Camera Mask", or "Video Loss" during the period set; the video file type is "M";
Alarm: Start recording while triggered by external alarm signal during the period set; the video filetype is "A".

B. **Manual**: Start recording no matter how the schedule is set.
C. **Stop**: Stop recording.

Note: the configuration is only valid to the selected channel(s).

3.1.2 Snapshot Storage


Main Menu->Record->SnapShot Storage
Chanel 1
Presnap 5 Pictures
Record Schedule Manual Stop
Week Thu Regular Detect Alarm
Period 1 00:00 - 24:00
Period 2 00:00 - 24:00
Period 3 00:00 - 24:00
Period 4 00:00 - 24:00
Advanced Ok Cancel

Here you can configure the "**Snapshot Storage**" setting for every channel. Please note that there should be at least one storage device set as "Snapshot Disk" if you want to store snapshots, please refer to 3.4.1.

Channel: Select 1 channel or all 4 channels for configuration;
Presnap: Set "Pre-snapshot Picture Number"; the DVR will take snapshots as set before recording happens;
Record: define Snapshot Modes; there are 3 options;

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